

COC#145

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132  
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 FAX 420-9210  
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# CHAIN OF CUSTODY REPORT

Work Order #:

160205

CLIENT: <b>BRISTOL</b>	INVOICE TO: <b>BRISTOL</b>
REPORT TO: <b>ANNE KRANAWETTER</b>	
ADDRESS: <b>AMCHITKA ISLAND, AK</b>	
PHONE: <b>907-770-0974</b> FAX: <b>770-0975</b>	P.O. NUMBER: <b>21090</b>

## TURNAROUND REQUEST in Business Days\*

Organic & Inorganic Analyses

10 7 5 4 3 2 1 <1

STD.

Petroleum Hydrocarbon Analyses

5 4 3 2 1 <1

STD.

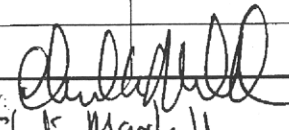
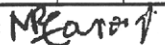
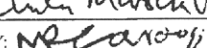

Please Specify

OTHER

\*Turnaround Requests less than standard may incur Rush Charges.

PROJECT NAME: <b>AMCHITKA</b>		REQUESTED ANALYSES											
PROJECT NUMBER: <b>21090</b>													
SAMPLED BY: <b>ARK/crm</b>													
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DE/PRO	PAH/RS	metals	GC/MS/ET	VOC							
1. CIA MA19U03SL	7/3/01 1700	✓	✓	✓	✓								
2. O1 AM A19U04SL	7/3/01 1705	✓	✓	✓	✓								
3. O1 AM A19U05SL	7/3/01 1710	✓	✓	✓	✓								
4. O1 AM A19U06SL	7/3/01 1715	✓	✓	✓	✓								
5. O1 AM A19U07SL	7/3/01 1730	✓	✓	✓	✓								
6. O1 AM A19U08SL	7/3/01 1735	✓	✓	✓	✓								
7. O1 AM A19U09SL	7/3/01 1750	✓	✓	✓	✓								
8.													
9.													
10.													
11.													
12.													
13.													
14.													
15.													

MATRIX (W, S, O)	# OF CONT.	COMMENTS	WO ID
S	3		
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S	3		

RELINQUISHED BY: 	DATE: <b>7/3/01</b>	RECEIVED BY: 	DATE: <b>7/3/01</b>
PRINT NAME: <b>Chris Marshall</b>	FIRM: <b>BRISTOL</b>	PRINT NAME: <b>MUSTAHSAN R. FAROOQUI</b>	FIRM: <b>BRISTOL</b>
RELINQUISHED BY: 	DATE: <b>7/3/01</b>	RECEIVED BY: 	DATE: <b>7/6/01</b>
PRINT NAME: <b>MUSTAHSAN R. FAROOQUI</b>	FIRM: <b>NCA</b>	PRINT NAME: <b>Rachel Arriola</b>	FIRM: <b>NCA</b>
ADDITIONAL REMARKS: <b>Regulated underground storage tank A-19</b>		TEMP: <b>4.8</b>	PAGE <b>1</b> OF <b>1</b>



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9210 fax 425.420.9210  
**Spokane** East 11111 L. Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

30 July, 2001

Anne Krarawetter  
Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are **amended** results of analyses for samples received by the laboratory on 07/06/01 18:40. If you have any questions concerning this report, please feel free to contact me. These results supercede all previous results reported by the laboratory.

Sincerely,

Jerry Orlando  
Project Manager/QA

Work Orders included in this report:

**P1G0205**

Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter


**Amended Report**  
Issued: 07/30/01 16:44

**ANALYTICAL REPORT FOR SAMPLES - Amended**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMA19U03SL	P1G0205-01	Soil	07/03/01 17:00	07/06/01 18:40
01AMA19U04SL	P1G0205-02	Soil	07/03/01 17:05	07/06/01 18:40
01AMA19U05SL	P1G0205-03	Soil	07/03/01 17:10	07/06/01 18:40
01AMA19U06SL	P1G0205-04	Soil	07/03/01 17:15	07/06/01 18:40
01AMA19U07SL	P1G0205-05	Soil	07/03/01 17:20	07/06/01 18:40
01AMA19U08SL	P1G0205-06	Soil	07/03/01 17:25	07/06/01 18:40
01AMA19U09SL	P1G0205-07	Soil	07/03/01 17:30	07/06/01 18:40

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

**Gasoline Range Organics (n-Hexane to <n-Decane) and BTEX per AK101 and EPA 8021B**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U03SL (P1G0205-01) Soil</b>									
						Sampled: 07/03/01 Received: 07/06/01			
Gasoline Range Organics	ND	2.64	mg/kg dry	1	AK101/8021B	07/10/01	07/10/01	1071099	
Benzene	ND	0.0661	"	"	"	"	"	"	
Toluene	ND	0.0661	"	"	"	"	"	"	
Ethylbenzene	ND	0.0661	"	"	"	"	"	"	
Xylenes (total)	ND	0.0661	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	83.0 %	60-140							
Surr: a,a,a-TFT (PID)	73.2 %	60-140							
<b>01AMA19U04SL (P1G0205-02) Soil</b>									
						Sampled: 07/03/01 Received: 07/06/01			
Gasoline Range Organics	ND	2.99	mg/kg dry	1	AK101/8021B	07/10/01	07/10/01	1071099	
Benzene	ND	0.0748	"	"	"	"	"	"	
Toluene	ND	0.0748	"	"	"	"	"	"	
Ethylbenzene	ND	0.0748	"	"	"	"	"	"	
Xylenes (total)	ND	0.0748	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	96.7 %	60-140							
Surr: a,a,a-TFT (PID)	85.3 %	60-140							
<b>01AMA19U05SL (P1G0205-03) Soil</b>									
						Sampled: 07/03/01 Received: 07/06/01			
Gasoline Range Organics	ND	2.54	mg/kg dry	1	AK101/8021B	07/10/01	07/11/01	1071099	
Benzene	ND	0.0636	"	"	"	"	"	"	
Toluene	ND	0.0636	"	"	"	"	"	"	
Ethylbenzene	ND	0.0636	"	"	"	"	"	"	
Xylenes (total)	ND	0.0636	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	94.6 %	60-140							
Surr: a,a,a-TFT (PID)	83.2 %	60-140							

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

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 Environmental Laboratory Network

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter


**Amended Report**  
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**Gasoline Range Organics (n-Hexane to <n-Decane) and BTEX per AK101 and EPA 8021B**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U06SL (P1G0205-04) Soil</b>									
						Sampled: 07/03/01 Received: 07/06/01			
Gasoline Range Organics	ND	3.01	mg/kg dry	1	AK101/8021B	07/10/01	07/11/01	1071099	
Benzene	ND	0.0753	"	"	"	"	"	"	
Toluene	ND	0.0753	"	"	"	"	"	"	
Ethylbenzene	ND	0.0753	"	"	"	"	"	"	
Xylenes (total)	ND	0.0753	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	97.3 %	60-140							
Surr: a,a,a-TFT (PID)	84.0 %	60-140							
<b>01AMA19U07SL (P1G0205-05) Soil</b>									
						Sampled: 07/03/01 Received: 07/06/01			
Gasoline Range Organics	ND	2.55	mg/kg dry	1	AK101/8021B	07/10/01	07/11/01	1071099	
Benzene	ND	0.0638	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.0716</b>	0.0638	"	"	"	"	"	"	
Ethylbenzene	ND	0.0638	"	"	"	"	"	"	
Xylenes (total)	ND	0.0638	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	97.9 %	60-140							
Surr: a,a,a-TFT (PID)	85.6 %	60-140							
<b>01AMA19U08SL (P1G0205-06) Soil</b>									
						Sampled: 07/03/01 Received: 07/06/01			
Gasoline Range Organics	ND	3.56	mg/kg dry	1	AK101/8021B	07/10/01	07/11/01	1071099	
Benzene	ND	0.0891	"	"	"	"	"	"	
Toluene	ND	0.0891	"	"	"	"	"	"	
Ethylbenzene	ND	0.0891	"	"	"	"	"	"	
Xylenes (total)	ND	0.0891	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	97.2 %	60-140							
Surr: a,a,a-TFT (PID)	85.7 %	60-140							

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

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Project: Amchitka  
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 Project Manager: Anne Krarawetter


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**Gasoline Range Organics (n-Hexane to <n-Decane) and BTEX per AK101 and EPA 8021B**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U09SL (PIG0205-07) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Gasoline Range Organics	ND	2.81	mg/kg dry	1	AK101/8021B	07/10/01	07/11/01	1071099	
Benzene	ND	0.0704	"	"	"	"	"	"	
Toluene	ND	0.0704	"	"	"	"	"	"	
Ethylbenzene	ND	0.0704	"	"	"	"	"	"	
Xylenes (total)	ND	0.0704	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	95.0 %	60-140							
Surr: a,a,a-TFT (PID)	83.1 %	60-140							

North Creek Analytical - Portland

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 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44


## Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U03SL (P1G0205-01) Soil</b>									
						Sampled: 07/03/01	Received: 07/06/01		
Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/12/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	81.0 %	75-125							
Surr: Triacontane	103 %	50-150							
<b>01AMA19U04SL (P1G0205-02) Soil</b>									
						Sampled: 07/03/01	Received: 07/06/01		
Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/12/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	79.9 %	75-125							
Surr: Triacontane	103 %	50-150							
<b>01AMA19U05SL (P1G0205-03) Soil</b>									
						Sampled: 07/03/01	Received: 07/06/01		
Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/12/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	77.9 %	75-125							
Surr: Triacontane	106 %	50-150							
<b>01AMA19U06SL (P1G0205-04) Soil</b>									
						Sampled: 07/03/01	Received: 07/06/01		
Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/12/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	74.4 %	75-125							S-07
Surr: Triacontane	103 %	50-150							
<b>01AMA19U07SL (P1G0205-05) Soil</b>									
						Sampled: 07/03/01	Received: 07/06/01		
Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/12/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	78.6 %	75-125							
Surr: Triacontane	109 %	50-150							

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.  
 Environmental Laboratory Network

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

## Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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#### 01AMA19U08SL (P1G0205-06) Soil

Sampled: 07/03/01 Received: 07/06/01

Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/12/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	80.2 %	75-125							
Surr: Triacotane	106 %	50-150							

#### 01AMA19U09SL (P1G0205-07) Soil

Sampled: 07/03/01 Received: 07/06/01

Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/13/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	75.1 %	75-125							
Surr: Triacotane	92.3 %	50-150							

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
## Total Metals per EPA 6000/7000 Series Methods

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U03SL (P1G0205-01) Soil</b>									
						Sampled: 07/03/01 Received: 07/06/01			
Arsenic	1.05	0.500	mg/kg dry	1	EPA 6020	07/16/01	07/21/01	1071299	
Barium	31.7	1.00	"	10	"	"	07/21/01	"	
Cadmium	ND	0.500	"	"	"	"	07/21/01	"	
Chromium	9.98	0.500	"	"	"	"	"	"	
Lead	ND	10.0	"	"	"	"	"	"	
Nickel	21.8	1.00	"	"	"	"	07/21/01	"	R-06
Vanadium	53.1	2.50	"	1	"	"	"	"	
<b>01AMA19U04SL (P1G0205-02) Soil</b>									
						Sampled: 07/03/01 Received: 07/06/01			
Arsenic	1.07	0.500	mg/kg dry	1	EPA 6020	07/16/01	07/21/01	1071299	
Barium	29.9	1.00	"	10	"	"	07/21/01	"	
Cadmium	ND	0.500	"	"	"	"	07/21/01	"	
Chromium	9.00	0.500	"	"	"	"	"	"	
Lead	ND	10.0	"	"	"	"	"	"	
Nickel	21.8	1.00	"	"	"	"	07/21/01	"	R-06
Vanadium	52.7	2.50	"	1	"	"	"	"	
<b>01AMA19U05SL (P1G0205-03) Soil</b>									
						Sampled: 07/03/01 Received: 07/06/01			
Arsenic	1.32	0.500	mg/kg dry	1	EPA 6020	07/16/01	07/21/01	1071299	
Barium	30.5	1.00	"	10	"	"	07/21/01	"	
Cadmium	ND	0.500	"	"	"	"	07/21/01	"	
Chromium	11.1	0.500	"	"	"	"	"	"	
Lead	ND	10.0	"	"	"	"	"	"	
Nickel	24.1	1.00	"	"	"	"	07/21/01	"	R-06
Vanadium	63.1	2.50	"	1	"	"	"	"	

North Creek Analytical - Portland

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2000 W. International Airport Rd. #C-1  
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Project: Amchitka  
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**Amended Report**  
Issued: 07/30/01 16:44

### Total Metals per EPA 6000/7000 Series Methods

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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#### 01AMA19U06SL (P1G0205-04) Soil

Sampled: 07/03/01 Received: 07/06/01

Arsenic	1.43	0.500	mg/kg dry	1	EPA 6020	07/16/01	07/21/01	1071299	
Barium	36.2	1.00	"	10	"	"	07/21/01	"	
Cadmium	ND	0.500	"	"	"	"	07/21/01	"	
Chromium	13.1	0.500	"	"	"	"	"	"	
Lead	ND	10.0	"	"	"	"	"	"	
Nickel	24.3	1.00	"	"	"	"	07/21/01	"	R-06
Vanadium	8.37	2.50	"	1	"	"	"	"	

#### 01AMA19U07SL (P1G0205-05) Soil

Sampled: 07/03/01 Received: 07/06/01

Arsenic	3.97	0.500	mg/kg dry	1	EPA 6020	07/16/01	07/21/01	1071299	
Barium	52.4	1.00	"	10	"	"	07/21/01	"	
Cadmium	ND	0.500	"	"	"	"	07/21/01	"	
Chromium	13.6	0.500	"	"	"	"	"	"	
Lead	ND	10.0	"	"	"	"	"	"	
Nickel	26.4	1.00	"	"	"	"	07/21/01	"	R-06
Vanadium	88.5	2.50	"	1	"	"	"	"	


#### 01AMA19U08SL (P1G0205-06) Soil

Sampled: 07/03/01 Received: 07/06/01

Arsenic	1.96	0.500	mg/kg dry	1	EPA 6020	07/16/01	07/21/01	1071299	
Barium	47.5	1.00	"	10	"	"	07/21/01	"	
Cadmium	ND	0.500	"	"	"	"	07/21/01	"	
Chromium	17.9	0.500	"	"	"	"	"	"	
Lead	ND	10.0	"	"	"	"	"	"	
Nickel	25.8	1.00	"	"	"	"	07/21/01	"	R-06
Vanadium	118	2.50	"	1	"	"	"	"	

North Creek Analytical - Portland

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44


## Total Metals per EPA 6000/7000 Series Methods

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U09SL (P1G0205-07) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Arsenic	1.26	0.500	mg/kg dry	1	EPA 6020	07/16/01	07/21/01	1071299	
Barium	44.3	1.00	"	10	"	"	07/21/01	"	
Cadmium	ND	0.500	"	"	"	"	07/21/01	"	
Chromium	22.5	0.500	"	"	"	"	"	"	
Lead	ND	10.0	"	"	"	"	"	"	
Nickel	29.8	1.00	"	"	"	"	07/21/01	"	R-06
Vanadium	131	2.50	"	1	"	"	"	"	

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Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

## Polychlorinated Biphenyls per EPA Method 8082

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U03SL (P1G0205-01) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/10/01	07/13/01	1071014	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	81.3 %	63-119							
Surr: Decachlorobiphenyl	92.1 %	52-131							
<b>01AMA19U04SL (P1G0205-02) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/10/01	07/13/01	1071014	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	94.6 %	63-119							
Surr: Decachlorobiphenyl	105 %	52-131							
<b>01AMA19U05SL (P1G0205-03) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/10/01	07/13/01	1071014	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	88.4 %	63-119							
Surr: Decachlorobiphenyl	100 %	52-131							

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Bristol Environmental & Engineering  
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Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

## Polychlorinated Biphenyls per EPA Method 8082

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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#### 01AMA19U06SL (P1G0205-04) Soil

Sampled: 07/03/01 Received: 07/06/01

Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/10/01	07/13/01	1071014	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	

Surr: 2,4,5,6-Tetrachloro-m-xylene 89.2 % 63-119  
 Surr: Decachlorobiphenyl 98.2 % 52-131

#### 01AMA19U07SL (P1G0205-05) Soil

Sampled: 07/03/01 Received: 07/06/01

Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/10/01	07/13/01	1071014	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	

Surr: 2,4,5,6-Tetrachloro-m-xylene 73.2 % 63-119  
 Surr: Decachlorobiphenyl 85.8 % 52-131

#### 01AMA19U08SL (P1G0205-06) Soil


Sampled: 07/03/01 Received: 07/06/01

Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/14/01	07/18/01	1071259	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	

Surr: 2,4,5,6-Tetrachloro-m-xylene 95.0 % 63-119  
 Surr: Decachlorobiphenyl 113 % 52-131

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Bristol Environmental & Engineering  
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 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

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 Issued: 07/30/01 16:44


## Polychlorinated Biphenyls per EPA Method 8082

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U09SL (P1G0205-07) Soil</b>						Sampled: 07/03/01	Received: 07/06/01		
Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/14/01	07/18/01	1071259	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	94.5 %	63-119							
Surr: Decachlorobiphenyl	112 %	52-131							

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Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

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
## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U03SL (P1G0205-01) Soil</b>		Sampled: 07/03/01 Received: 07/06/01							
Acetone	ND	1650	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
Benzene	ND	66.1	"	"	"	"	"	"	
Bromobenzene	ND	66.1	"	"	"	"	"	"	
Bromochloromethane	ND	66.1	"	"	"	"	"	"	
Bromodichloromethane	ND	66.1	"	"	"	"	"	"	
Bromoform	ND	66.1	"	"	"	"	"	"	
Bromomethane	ND	330	"	"	"	"	"	"	
2-Butanone	ND	66.1	"	"	"	"	"	"	
n-Butylbenzene	ND	330	"	"	"	"	"	"	
sec-Butylbenzene	ND	66.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	66.1	"	"	"	"	"	"	
Carbon disulfide	ND	66.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	66.1	"	"	"	"	"	"	
Chlorobenzene	ND	66.1	"	"	"	"	"	"	
Chloroethane	ND	66.1	"	"	"	"	"	"	
Chloroform	ND	66.1	"	"	"	"	"	"	
Chloromethane	ND	330	"	"	"	"	"	"	
2-Chlorotoluene	ND	66.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	66.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	330	"	"	"	"	"	"	
Dibromochloromethane	ND	66.1	"	"	"	"	"	"	
1,2-Dibromoethane	ND	66.1	"	"	"	"	"	"	
Dibromomethane	ND	66.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	66.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	66.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	66.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	330	"	"	"	"	"	"	
1,1-Dichloroethane	ND	66.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	66.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	66.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	66.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	66.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	66.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	66.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	66.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	66.1	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	66.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	66.1	"	"	"	"	"	"	
Ethylbenzene	ND	66.1	"	"	"	"	"	"	

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Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

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 Issued: 07/30/01 16:44

## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U03SL (P1G0205-01) Soil</b>					Sampled: 07/03/01 Received: 07/06/01				
Hexachlorobutadiene	ND	132	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
2-Hexanone	ND	661	"	"	"	"	"	"	
Isopropylbenzene	ND	132	"	"	"	"	"	"	
p-Isopropyltoluene	ND	132	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	330	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	66.1	"	"	"	"	"	"	
Methylene chloride	ND	330	"	"	"	"	"	"	
Naphthalene	ND	132	"	"	"	"	"	"	
n-Propylbenzene	ND	66.1	"	"	"	"	"	"	
Styrene	ND	66.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	66.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	66.1	"	"	"	"	"	"	
Tetrachloroethene	ND	66.1	"	"	"	"	"	"	
Toluene	ND	66.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	66.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	66.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	66.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	66.1	"	"	"	"	"	"	
Trichloroethene	ND	66.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	66.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	66.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	66.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	66.1	"	"	"	"	"	"	
Vinyl chloride	ND	66.1	"	"	"	"	"	"	
o-Xylene	ND	66.1	"	"	"	"	"	"	
m,p-Xylene	ND	132	"	"	"	"	"	"	
Surr: 4-BFB	92.4 %	70-130							
Surr: 1,2-DCA-d4	92.9 %	70-130							
Surr: Dibromofluoromethane	96.5 %	70-130							
Surr: Toluene-d8	105 %	70-130							

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Project: Amchitka  
 Project Number: 210901, PO# 21090  
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
## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U04SL (P1G0205-02) Soil</b>					Sampled: 07/03/01 Received: 07/06/01				
Acetone	ND	1870	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
Benzene	ND	74.8	"	"	"	"	"	"	
Bromobenzene	ND	74.8	"	"	"	"	"	"	
Bromochloromethane	ND	74.8	"	"	"	"	"	"	
Bromodichloromethane	ND	74.8	"	"	"	"	"	"	
Bromoform	ND	74.8	"	"	"	"	"	"	
Bromomethane	ND	374	"	"	"	"	"	"	
2-Butanone	ND	74.8	"	"	"	"	"	"	
n-Butylbenzene	ND	374	"	"	"	"	"	"	
sec-Butylbenzene	ND	74.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	74.8	"	"	"	"	"	"	
Carbon disulfide	ND	74.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	74.8	"	"	"	"	"	"	
Chlorobenzene	ND	74.8	"	"	"	"	"	"	
Chloroethane	ND	74.8	"	"	"	"	"	"	
Chloroform	ND	74.8	"	"	"	"	"	"	
Chloromethane	ND	374	"	"	"	"	"	"	
2-Chlorotoluene	ND	74.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	74.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	374	"	"	"	"	"	"	
Dibromochloromethane	ND	74.8	"	"	"	"	"	"	
1,2-Dibromoethane	ND	74.8	"	"	"	"	"	"	
Dibromomethane	ND	74.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	74.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	74.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	74.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	374	"	"	"	"	"	"	
1,1-Dichloroethane	ND	74.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	74.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	74.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	74.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	74.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	74.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	74.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	74.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	74.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	74.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	74.8	"	"	"	"	"	"	
Ethylbenzene	ND	74.8	"	"	"	"	"	"	

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Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44


## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U04SL (P1G0205-02) Soil</b>					Sampled: 07/03/01 Received: 07/06/01				
Hexachlorobutadiene	ND	150	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
2-Hexanone	ND	748	"	"	"	"	"	"	
Isopropylbenzene	ND	150	"	"	"	"	"	"	
p-Isopropyltoluene	ND	150	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	374	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	74.8	"	"	"	"	"	"	
Methylene chloride	ND	374	"	"	"	"	"	"	
Naphthalene	ND	150	"	"	"	"	"	"	
n-Propylbenzene	ND	74.8	"	"	"	"	"	"	
Styrene	ND	74.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	74.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	74.8	"	"	"	"	"	"	
Tetrachloroethene	ND	74.8	"	"	"	"	"	"	
Toluene	ND	74.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	74.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	74.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	74.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	74.8	"	"	"	"	"	"	
Trichloroethene	ND	74.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	74.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	74.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	74.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	74.8	"	"	"	"	"	"	
Vinyl chloride	ND	74.8	"	"	"	"	"	"	
o-Xylene	ND	74.8	"	"	"	"	"	"	
m,p-Xylene	ND	150	"	"	"	"	"	"	
Surr: 4-BFB	92.3 %	70-130							
Surr: 1,2-DCA-d4	95.1 %	70-130							
Surr: Dibromofluoromethane	96.7 %	70-130							
Surr: Toluene-d8	107 %	70-130							

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.  
 Environmental Laboratory Network

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U05SL (P1G0205-03) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Acetone	ND	1590	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
Benzene	ND	63.6	"	"	"	"	"	"	
Bromobenzene	ND	63.6	"	"	"	"	"	"	
Bromochloromethane	ND	63.6	"	"	"	"	"	"	
Bromodichloromethane	ND	63.6	"	"	"	"	"	"	
Bromoform	ND	63.6	"	"	"	"	"	"	
Bromomethane	ND	318	"	"	"	"	"	"	
2-Butanone	ND	636	"	"	"	"	"	"	
n-Butylbenzene	ND	318	"	"	"	"	"	"	
sec-Butylbenzene	ND	63.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	63.6	"	"	"	"	"	"	
Carbon disulfide	ND	636	"	"	"	"	"	"	
Carbon tetrachloride	ND	63.6	"	"	"	"	"	"	
Chlorobenzene	ND	63.6	"	"	"	"	"	"	
Chloroethane	ND	63.6	"	"	"	"	"	"	
Chloroform	ND	63.6	"	"	"	"	"	"	
Chloromethane	ND	318	"	"	"	"	"	"	
2-Chlorotoluene	ND	63.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	63.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	318	"	"	"	"	"	"	
Dibromochloromethane	ND	63.6	"	"	"	"	"	"	
1,2-Dibromoethane	ND	63.6	"	"	"	"	"	"	
Dibromomethane	ND	63.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	63.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	63.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	63.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	318	"	"	"	"	"	"	
1,1-Dichloroethane	ND	63.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	63.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	63.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	63.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	63.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	63.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	63.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	63.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	63.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	63.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	63.6	"	"	"	"	"	"	
Ethylbenzene	ND	63.6	"	"	"	"	"	"	

North Creek Analytical - Portland

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*Jerry Orlando*  
 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.  
 Environmental Laboratory Network

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter


**Amended Report**  
 Issued: 07/30/01 16:44

**Volatile Organic Compounds per EPA Method 8260B**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U05SL (P1G0205-03) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Hexachlorobutadiene	ND	127	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
2-Hexanone	ND	636	"	"	"	"	"	"	
Isopropylbenzene	ND	127	"	"	"	"	"	"	
p-Isopropyltoluene	ND	127	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	318	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	63.6	"	"	"	"	"	"	
Methylene chloride	ND	318	"	"	"	"	"	"	
Naphthalene	ND	127	"	"	"	"	"	"	
n-Propylbenzene	ND	63.6	"	"	"	"	"	"	
Styrene	ND	63.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	63.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	63.6	"	"	"	"	"	"	
Tetrachloroethene	ND	63.6	"	"	"	"	"	"	
<b>Toluene</b>	<b>88.9</b>	63.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	63.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	63.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	63.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	63.6	"	"	"	"	"	"	
Trichloroethene	ND	63.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	63.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	63.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	63.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	63.6	"	"	"	"	"	"	
Vinyl chloride	ND	63.6	"	"	"	"	"	"	
o-Xylene	ND	63.6	"	"	"	"	"	"	
m,p-Xylene	ND	127	"	"	"	"	"	"	
Surr: 4-BFB	91.0 %	70-130							
Surr: 1,2-DCA-d4	98.1 %	70-130							
Surr: Dibromofluoromethane	96.1 %	70-130							
Surr: Toluene-d8	106 %	70-130							

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

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**Environmental Laboratory Network**

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44


## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U06SL (P1G0205-04) Soil</b>						Sampled: 07/03/01	Received: 07/06/01		
Acetone	ND	1880	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
Benzene	ND	75.3	"	"	"	"	"	"	
Bromobenzene	ND	75.3	"	"	"	"	"	"	
Bromochloromethane	ND	75.3	"	"	"	"	"	"	
Bromodichloromethane	ND	75.3	"	"	"	"	"	"	
Bromoform	ND	75.3	"	"	"	"	"	"	
Bromomethane	ND	376	"	"	"	"	"	"	
2-Butanone	ND	75.3	"	"	"	"	"	"	
n-Butylbenzene	ND	376	"	"	"	"	"	"	
sec-Butylbenzene	ND	75.3	"	"	"	"	"	"	
tert-Butylbenzene	ND	75.3	"	"	"	"	"	"	
Carbon disulfide	ND	75.3	"	"	"	"	"	"	
Carbon tetrachloride	ND	75.3	"	"	"	"	"	"	
Chlorobenzene	ND	75.3	"	"	"	"	"	"	
Chloroethane	ND	75.3	"	"	"	"	"	"	
Chloroform	ND	75.3	"	"	"	"	"	"	
Chloromethane	ND	376	"	"	"	"	"	"	
2-Chlorotoluene	ND	75.3	"	"	"	"	"	"	
4-Chlorotoluene	ND	75.3	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	376	"	"	"	"	"	"	
Dibromochloromethane	ND	75.3	"	"	"	"	"	"	
1,2-Dibromoethane	ND	75.3	"	"	"	"	"	"	
Dibromomethane	ND	75.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	75.3	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	75.3	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	75.3	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	376	"	"	"	"	"	"	
1,1-Dichloroethane	ND	75.3	"	"	"	"	"	"	
1,2-Dichloroethane	ND	75.3	"	"	"	"	"	"	
1,1-Dichloroethene	ND	75.3	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	75.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	75.3	"	"	"	"	"	"	
1,2-Dichloropropane	ND	75.3	"	"	"	"	"	"	
1,3-Dichloropropane	ND	75.3	"	"	"	"	"	"	
2,2-Dichloropropane	ND	75.3	"	"	"	"	"	"	
1,1-Dichloropropene	ND	75.3	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	75.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	75.3	"	"	"	"	"	"	
Ethylbenzene	ND	75.3	"	"	"	"	"	"	

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

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**Environmental Laboratory Network**

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44


## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U06SL (PIG0205-04) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Hexachlorobutadiene	ND	151	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
2-Hexanone	ND	753	"	"	"	"	"	"	
Isopropylbenzene	ND	151	"	"	"	"	"	"	
p-Isopropyltoluene	ND	151	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	376	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	75.3	"	"	"	"	"	"	
Methylene chloride	ND	376	"	"	"	"	"	"	
Naphthalene	ND	151	"	"	"	"	"	"	
n-Propylbenzene	ND	75.3	"	"	"	"	"	"	
Styrene	ND	75.3	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	75.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	75.3	"	"	"	"	"	"	
Tetrachloroethene	ND	75.3	"	"	"	"	"	"	
Toluene	ND	75.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	75.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	75.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	75.3	"	"	"	"	"	"	
Trichloroethene	ND	75.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	75.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	75.3	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	75.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	75.3	"	"	"	"	"	"	
Vinyl chloride	ND	75.3	"	"	"	"	"	"	
o-Xylene	ND	75.3	"	"	"	"	"	"	
m,p-Xylene	ND	151	"	"	"	"	"	"	
Surr: 4-BFB	92.2 %	70-130							
Surr: 1,2-DCA-d4	96.6 %	70-130							
Surr: Dibromofluoromethane	96.1 %	70-130							
Surr: Toluene-d8	108 %	70-130							

North Creek Analytical - Portland

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North Creek Analytical, Inc.  
 Environmental Laboratory Network

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

**Volatile Organic Compounds per EPA Method 8260B**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U07SL (P1G0205-05) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Acetone	ND	1590	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
Benzene	ND	63.8	"	"	"	"	"	"	
Bromobenzene	ND	63.8	"	"	"	"	"	"	
Bromochloromethane	ND	63.8	"	"	"	"	"	"	
Bromodichloromethane	ND	63.8	"	"	"	"	"	"	
Bromoform	ND	63.8	"	"	"	"	"	"	
Bromomethane	ND	319	"	"	"	"	"	"	
2-Butanone	ND	638	"	"	"	"	"	"	
n-Butylbenzene	ND	319	"	"	"	"	"	"	
sec-Butylbenzene	ND	63.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	63.8	"	"	"	"	"	"	
Carbon disulfide	ND	638	"	"	"	"	"	"	
Carbon tetrachloride	ND	63.8	"	"	"	"	"	"	
Chlorobenzene	ND	63.8	"	"	"	"	"	"	
Chloroethane	ND	63.8	"	"	"	"	"	"	
Chloroform	ND	63.8	"	"	"	"	"	"	
Chloromethane	ND	319	"	"	"	"	"	"	
2-Chlorotoluene	ND	63.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	63.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	319	"	"	"	"	"	"	
Dibromochloromethane	ND	63.8	"	"	"	"	"	"	
1,2-Dibromoethane	ND	63.8	"	"	"	"	"	"	
Dibromomethane	ND	63.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	63.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	63.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	63.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	319	"	"	"	"	"	"	
1,1-Dichloroethane	ND	63.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	63.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	63.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	63.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	63.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	63.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	63.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	63.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	63.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	63.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	63.8	"	"	"	"	"	"	
Ethylbenzene	ND	63.8	"	"	"	"	"	"	

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44


## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U07SL (P1G0205-05) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Hexachlorobutadiene	ND	128	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
2-Hexanone	ND	638	"	"	"	"	"	"	
Isopropylbenzene	ND	128	"	"	"	"	"	"	
p-Isopropyltoluene	ND	128	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	319	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	63.8	"	"	"	"	"	"	
Methylene chloride	ND	319	"	"	"	"	"	"	
Naphthalene	ND	128	"	"	"	"	"	"	
n-Propylbenzene	ND	63.8	"	"	"	"	"	"	
Styrene	ND	63.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	63.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	63.8	"	"	"	"	"	"	
Tetrachloroethene	ND	63.8	"	"	"	"	"	"	
<b>Toluene</b>	<b>88.8</b>	63.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	63.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	63.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	63.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	63.8	"	"	"	"	"	"	
Trichloroethene	ND	63.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	63.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	63.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	63.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	63.8	"	"	"	"	"	"	
Vinyl chloride	ND	63.8	"	"	"	"	"	"	
o-Xylene	ND	63.8	"	"	"	"	"	"	
m,p-Xylene	ND	128	"	"	"	"	"	"	
Surr: 4-BFB	90.8 %	70-130							
Surr: 1,2-DCA-d4	98.0 %	70-130							
Surr: Dibromofluoromethane	97.4 %	70-130							
Surr: Toluene-d8	106 %	70-130							

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

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 Environmental Laboratory Network

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44


## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U08SL (P1G0205-06) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Acetone	ND	2230	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
Benzene	ND	89.1	"	"	"	"	"	"	
Bromobenzene	ND	89.1	"	"	"	"	"	"	
Bromochloromethane	ND	89.1	"	"	"	"	"	"	
Bromodichloromethane	ND	89.1	"	"	"	"	"	"	
Bromoform	ND	89.1	"	"	"	"	"	"	
Bromomethane	ND	445	"	"	"	"	"	"	
2-Butanone	ND	891	"	"	"	"	"	"	
n-Butylbenzene	ND	445	"	"	"	"	"	"	
sec-Butylbenzene	ND	89.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	89.1	"	"	"	"	"	"	
Carbon disulfide	ND	891	"	"	"	"	"	"	
Carbon tetrachloride	ND	89.1	"	"	"	"	"	"	
Chlorobenzene	ND	89.1	"	"	"	"	"	"	
Chloroethane	ND	89.1	"	"	"	"	"	"	
Chloroform	ND	89.1	"	"	"	"	"	"	
Chloromethane	ND	445	"	"	"	"	"	"	
2-Chlorotoluene	ND	89.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	89.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	445	"	"	"	"	"	"	
Dibromochloromethane	ND	89.1	"	"	"	"	"	"	
1,2-Dibromoethane	ND	89.1	"	"	"	"	"	"	
Dibromomethane	ND	89.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	89.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	89.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	89.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	445	"	"	"	"	"	"	
1,1-Dichloroethane	ND	89.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	89.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	89.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	89.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	89.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	89.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	89.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	89.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	89.1	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	89.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	89.1	"	"	"	"	"	"	
Ethylbenzene	ND	89.1	"	"	"	"	"	"	

North Creek Analytical - Portland

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U08SL (P1G0205-06) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Hexachlorobutadiene	ND	178	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
2-Hexanone	ND	891	"	"	"	"	"	"	
Isopropylbenzene	ND	178	"	"	"	"	"	"	
p-Isopropyltoluene	ND	178	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	445	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	89.1	"	"	"	"	"	"	
Methylene chloride	ND	445	"	"	"	"	"	"	
Naphthalene	ND	178	"	"	"	"	"	"	
n-Propylbenzene	ND	89.1	"	"	"	"	"	"	
Styrene	ND	89.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	89.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	89.1	"	"	"	"	"	"	
Tetrachloroethene	ND	89.1	"	"	"	"	"	"	
Toluene	ND	89.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	89.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	89.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	89.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	89.1	"	"	"	"	"	"	
Trichloroethene	ND	89.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	89.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	89.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	89.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	89.1	"	"	"	"	"	"	
Vinyl chloride	ND	89.1	"	"	"	"	"	"	
o-Xylene	ND	89.1	"	"	"	"	"	"	
m,p-Xylene	ND	178	"	"	"	"	"	"	
Surr: 4-BFB	94.4 %	70-130							
Surr: 1,2-DCA-d4	95.8 %	70-130							
Surr: Dibromofluoromethane	97.7 %	70-130							
Surr: Toluene-d8	107 %	70-130							

North Creek Analytical - Portland

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*J*

Jerry Orlando, Project Manager/QA

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 Environmental Laboratory Network

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter


**Amended Report**  
 Issued: 07/30/01 16:44

**Volatile Organic Compounds per EPA Method 8260B**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U09SL (P1G0205-07) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Acetone	ND	1760	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
Benzene	ND	70.4	"	"	"	"	"	"	
Bromobenzene	ND	70.4	"	"	"	"	"	"	
Bromochloromethane	ND	70.4	"	"	"	"	"	"	
Bromodichloromethane	ND	70.4	"	"	"	"	"	"	
Bromoform	ND	70.4	"	"	"	"	"	"	
Bromomethane	ND	352	"	"	"	"	"	"	
2-Butanone	ND	70.4	"	"	"	"	"	"	
n-Butylbenzene	ND	352	"	"	"	"	"	"	
sec-Butylbenzene	ND	70.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	70.4	"	"	"	"	"	"	
Carbon disulfide	ND	70.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	70.4	"	"	"	"	"	"	
Chlorobenzene	ND	70.4	"	"	"	"	"	"	
Chloroethane	ND	70.4	"	"	"	"	"	"	
Chloroform	ND	70.4	"	"	"	"	"	"	
Chloromethane	ND	352	"	"	"	"	"	"	
2-Chlorotoluene	ND	70.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	70.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	352	"	"	"	"	"	"	
Dibromochloromethane	ND	70.4	"	"	"	"	"	"	
1,2-Dibromoethane	ND	70.4	"	"	"	"	"	"	
Dibromomethane	ND	70.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	70.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	70.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	70.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	352	"	"	"	"	"	"	
1,1-Dichloroethane	ND	70.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	70.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	70.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	70.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	70.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	70.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	70.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	70.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	70.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	70.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	70.4	"	"	"	"	"	"	
Ethylbenzene	ND	70.4	"	"	"	"	"	"	

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

**Amended Report**  
Issued: 07/30/01 16:44

## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U09SL (P1G0205-07) Soil</b>					Sampled: 07/03/01 Received: 07/06/01				
Hexachlorobutadiene	ND	141	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
2-Hexanone	ND	704	"	"	"	"	"	"	
Isopropylbenzene	ND	141	"	"	"	"	"	"	
p-Isopropyltoluene	ND	141	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	352	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	70.4	"	"	"	"	"	"	
Methylene chloride	ND	352	"	"	"	"	"	"	
Naphthalene	ND	141	"	"	"	"	"	"	
n-Propylbenzene	ND	70.4	"	"	"	"	"	"	
Styrene	ND	70.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	70.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	70.4	"	"	"	"	"	"	
Tetrachloroethene	ND	70.4	"	"	"	"	"	"	
Toluene	ND	70.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	70.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	70.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	70.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	70.4	"	"	"	"	"	"	
Trichloroethene	ND	70.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	70.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	70.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	70.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	70.4	"	"	"	"	"	"	
Vinyl chloride	ND	70.4	"	"	"	"	"	"	
o-Xylene	ND	70.4	"	"	"	"	"	"	
m,p-Xylene	ND	141	"	"	"	"	"	"	
Surr: 4-BFB	90.3 %	70-130							
Surr: 1,2-DCA-d4	96.6 %	70-130							
Surr: Dibromofluoromethane	97.1 %	70-130							
Surr: Toluene-d8	107 %	70-130							

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

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**Environmental Laboratory Network**

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44


**Polynuclear Aromatic Compounds per EPA 8270M-SIM**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U03SL (P1G0205-01) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	07/12/01	07/16/01	1071164	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	83.2 %	40-150							
Surr: Pyrene-d10	129 %	40-150							
Surr: Benzo (a) pyrene-d12	87.9 %	40-150							

<b>01AMA19U04SL (P1G0205-02) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	07/12/01	07/16/01	1071164	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	80.7 %	40-150							

North Creek Analytical - Portland

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

## Polynuclear Aromatic Compounds per EPA 8270M-SIM

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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#### 01AMA19U04SL (P1G0205-02) Soil

Sampled: 07/03/01 Received: 07/06/01

Surr: Pyrene-d10	126 %	40-150							
Surr: Benzo (a) pyrene-d12	96.3 %	40-150							

#### 01AMA19U05SL (P1G0205-03) Soil

Sampled: 07/03/01 Received: 07/06/01

Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	07/12/01	07/16/01	1071164	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	

Surr: Fluorene-d10	75.2 %	40-150							
Surr: Pyrene-d10	130 %	40-150							
Surr: Benzo (a) pyrene-d12	86.3 %	40-150							

#### 01AMA19U06SL (P1G0205-04) Soil

Sampled: 07/03/01 Received: 07/06/01

Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	07/12/01	07/17/01	1071164	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	

North Creek Analytical - Portland

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 Environmental Laboratory Network

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

## Polynuclear Aromatic Compounds per EPA 8270M-SIM

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U06SL (P1G0205-04) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
Naphthalene	ND	13.4	ug/kg dry	1	EPA 8270m	07/12/01	07/17/01	1071164	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	84.9 %	40-150							
Surr: Pyrene-d10	122 %	40-150							
Surr: Benzo (a) pyrene-d12	94.6 %	40-150							

<b>01AMA19U07SL (P1G0205-05) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			<b>R-05</b>
Acenaphthene	ND	26.8	ug/kg dry	2	EPA 8270m	07/12/01	07/16/01	1071164	
Acenaphthylene	ND	26.8	"	"	"	"	"	"	
Anthracene	ND	26.8	"	"	"	"	"	"	
Benzo (a) anthracene	ND	26.8	"	"	"	"	"	"	
Benzo (a) pyrene	ND	26.8	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	26.8	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	26.8	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	26.8	"	"	"	"	"	"	
Chrysene	ND	26.8	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	26.8	"	"	"	"	"	"	
Fluoranthene	ND	26.8	"	"	"	"	"	"	
Fluorene	ND	26.8	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	26.8	"	"	"	"	"	"	
Naphthalene	61.0	26.8	"	"	"	"	"	"	
Phenanthrene	81.1	26.8	"	"	"	"	"	"	
Pyrene	ND	26.8	"	"	"	"	"	"	
Surr: Fluorene-d10	84.8 %	40-150							
Surr: Pyrene-d10	129 %	40-150							
Surr: Benzo (a) pyrene-d12	93.2 %	40-150							

North Creek Analytical - Portland

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Annie Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

## Polynuclear Aromatic Compounds per EPA 8270M-SIM


### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U08SL (P1G0205-06) Soil</b>									
					Sampled: 07/03/01 Received: 07/06/01				
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	07/12/01	07/17/01	1071164	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	79.2 %	40-150							
Surr: Pyrene-d10	123 %	40-150							
Surr: Benzo (a) pyrene-d12	90.4 %	40-150							

<b>01AMA19U09SL (P1G0205-07) Soil</b>									
					Sampled: 07/03/01 Received: 07/06/01				
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	07/12/01	07/17/01	1071164	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	83.8 %	40-150							

North Creek Analytical - Portland

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

**Polynuclear Aromatic Compounds per EPA 8270M-SIM**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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**01AMA19U09SL (P1G0205-07) Soil**

Sampled: 07/03/01 Received: 07/06/01

Surr: Pyrene-d10	116 %	40-150
Surr: Benzo (a) pyrene-d12	93.6 %	40-150

North Creek Analytical - Portland

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 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44


## Percent Dry Weight (Solids) per Standard Methods

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA19U03SL (P1G0205-01) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
% Solids	77.9	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	
<b>01AMA19U04SL (P1G0205-02) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
% Solids	82.0	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	
<b>01AMA19U05SL (P1G0205-03) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
% Solids	82.2	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	
<b>01AMA19U06SL (P1G0205-04) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
% Solids	84.0	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	
<b>01AMA19U07SL (P1G0205-05) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
% Solids	83.3	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	
<b>01AMA19U08SL (P1G0205-06) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
% Solids	83.2	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	
<b>01AMA19U09SL (P1G0205-07) Soil</b>						Sampled: 07/03/01 Received: 07/06/01			
% Solids	80.3	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

### Gasoline Range Organics (n-Hexane to <n-Decane) and BTEX per AK101 and EPA 8021B - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071099 - EPA 5035

##### Blank (1071099-BLK1)

Prepared & Analyzed: 07/10/01

Gasoline Range Organics	ND	4.00	mg/kg							
Benzene	ND	0.100	"							
Toluene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Xylenes (total)	ND	0.100	"							
Surr: a,a,a-TFT (FID)	3.22		"	2.50		129	60-140			
Surr: a,a,a-TFT (PID)	2.43		"	2.50		97.2	60-140			

##### LCS (1071099-BS1)

Prepared & Analyzed: 07/10/01

Gasoline Range Organics	68.6	4.00	mg/kg	62.5		110	70-120			
Surr: a,a,a-TFT (FID)	3.41		"	2.50		136	60-140			

##### LCS (1071099-BS2)

Prepared & Analyzed: 07/10/01

Benzene	0.795	0.100	mg/kg	1.00		79.5	70-120			
Toluene	0.777	0.100	"	1.00		77.7	70-120			
Ethylbenzene	0.803	0.100	"	1.00		80.3	70-120			
Xylenes (total)	2.51	0.100	"	3.00		83.7	70-120			
Surr: a,a,a-TFT (PID)	2.47		"	2.50		98.8	60-140			

##### LCS Dup (1071099-BSD1)

Prepared & Analyzed: 07/10/01

Gasoline Range Organics	68.6	4.00	mg/kg	62.5		110	70-120	0.00	20	
Surr: a,a,a-TFT (FID)	3.46		"	2.50		138	60-140			


##### LCS Dup (1071099-BSD2)

Prepared & Analyzed: 07/10/01

Benzene	0.819	0.100	mg/kg	1.00		81.9	70-120	2.97	200	
Toluene	0.799	0.100	"	1.00		79.9	70-120	2.79	200	
Ethylbenzene	0.835	0.100	"	1.00		83.5	70-120	3.91	200	
Xylenes (total)	2.60	0.100	"	3.00		86.7	70-120	3.52	200	
Surr: a,a,a-TFT (PID)	2.51		"	2.50		100	60-140			

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

**Gasoline Range Organics (n-Hexane to <n-Decane) and BTEX per AK101 and EPA 8021B - Quality Control**

**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1071099 - EPA 5035**

**Duplicate (1071099-DUP1)**

Source: P1G0209-01

Prepared & Analyzed: 07/10/01

Gasoline Range Organics	ND	4.00	mg/kg dry		ND			8.22	50	
Surr: a,a,a-TFT (FID)	12.0		"	11.1		108	60-140			

**Duplicate (1071099-DUP2)**


Source: P1G0205-01

Prepared & Analyzed: 07/10/01

Gasoline Range Organics	ND	2.64	mg/kg dry		ND				50	
Surr: a,a,a-TFT (FID)	6.66		"	8.48		78.5	60-140			

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

## Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 - Quality Control

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071114 - EPA 3550 Fuels

##### Blank (1071114-BLK1)

Prepared: 07/11/01 Analyzed: 07/12/01

Diesel Range Organics	ND	25.0	mg/kg							
Residual Range Organics	ND	50.0	"							
Surr: 1-Chlorooctadecane	4.21		"	4.80		87.7	75-125			
Surr: Triacontane	4.55		"	6.25		72.8	50-150			

##### LCS (1071114-BS1)

Prepared: 07/11/01 Analyzed: 07/12/01

Diesel Range Organics	110	25.0	mg/kg	129		85.3	60-130			
Residual Range Organics	80.6	50.0	"	79.0		102	60-130			
Surr: 1-Chlorooctadecane	3.46		"	4.80		72.1	75-125			S-07
Surr: Triacontane	6.12		"	6.25		97.9	50-150			

##### LCS Dup (1071114-BSD1)

Prepared: 07/11/01 Analyzed: 07/13/01

Diesel Range Organics	119	25.0	mg/kg	129		92.2	60-130	7.86	20	
Residual Range Organics	81.6	50.0	"	79.0		103	60-130	1.23	20	
Surr: 1-Chlorooctadecane	3.65		"	4.80		76.0	75-125			
Surr: Triacontane	6.44		"	6.25		103	50-150			

##### Duplicate (1071114-DUP1)

Source: P1G0205-01

Prepared: 07/11/01 Analyzed: 07/12/01

Diesel Range Organics	ND	25.0	mg/kg dry		ND				50	
Residual Range Organics	ND	50.0	"		ND				50	
Surr: 1-Chlorooctadecane	4.83		"	6.16		78.4	75-125			
Surr: Triacontane	7.58		"	8.03		94.4	50-150			

##### Duplicate (1071114-DUP2)


Source: P1G0206-07

Prepared: 07/11/01 Analyzed: 07/12/01

Diesel Range Organics	ND	25.0	mg/kg dry		ND				50	
Residual Range Organics	ND	50.0	"		ND				50	
Surr: 1-Chlorooctadecane	4.41		"	5.15		85.6	75-125			
Surr: Triacontane	8.57		"	6.71		128	50-150			

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 Environmental Laboratory Network

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Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

**Amended Report**  
Issued: 07/30/01 16:44

**Total Metals per EPA 6000/7000 Series Methods - Quality Control**

**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
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**Batch 1071299 - EPA 3050**

**Blank (1071299-BLK1)**

Prepared: 07/16/01 Analyzed: 07/21/01

Arsenic	ND	0.500	mg/kg						
Barium	ND	1.00	"						
Cadmium	ND	0.500	"						
Chromium	ND	0.500	"						
Lead	ND	10.0	"						
Nickel	ND	1.00	"						R-06
Vanadium	ND	2.50	"						

**LCS (1071299-BS1)**

Prepared: 07/16/01 Analyzed: 07/18/01

Arsenic	10.5	0.500	mg/kg	10.0	105	80-120			
Barium	11.1	1.00	"	10.0	111	80-120			
Cadmium	10.6	0.500	"	10.0	106	80-120			
Chromium	11.2	0.500	"	10.0	112	80-120			
Lead	10.8	10.0	"	10.0	108	80-120			
Nickel	11.5	1.00	"	10.0	115	80-120			R-06
Vanadium	10.7	2.50	"	10.0	107	80-120			

**Duplicate (1071299-DUP1)**

Source: P1G0205-01

Prepared: 07/16/01 Analyzed: 07/21/01

Arsenic	1.24	0.500	mg/kg dry	1.05	16.6	40			
Barium	30.0	1.00	"	31.7	5.51	40			
Cadmium	ND	0.500	"	ND		40			
Chromium	10.2	0.500	"	9.98	2.18	40			
Lead	ND	10.0	"	ND	0.00	40			
Nickel	21.3	1.00	"	21.8	2.32	40			R-06
Vanadium	57.2	2.50	"	53.1	7.43	40			

**Matrix Spike (1071299-MS1)**


Source: P1G0205-01

Prepared: 07/16/01 Analyzed: 07/21/01

Arsenic	14.1	0.500	mg/kg dry	12.8	1.05	102	75-125		
Barium	45.2	1.00	"	12.8	31.7	105	75-125		
Cadmium	13.3	0.500	"	12.8	ND	104	75-125		
Chromium	21.3	0.500	"	12.8	9.98	88.4	75-125		
Lead	16.2	10.0	"	12.8	ND	101	75-125		R-06
Nickel	30.4	1.00	"	12.8	21.8	67.2	75-125		Q-02
Vanadium	60.9	2.50	"	12.8	53.1	60.9	75-125		Q-02

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

### Total Metals per EPA 6000/7000 Series Methods - Quality Control

#### North Creek Analytical - Portland


Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071299 - EPA 3050

Matrix Spike (1071299-MS2)	Source: P1G0206-01			Prepared: 07/16/01		Analyzed: 07/21/01				
Arsenic	15.5	0.500	mg/kg dry	11.3	1.92	120	75-125			
Barium	46.8	1.00	"	11.3	35.1	104	75-125			
Cadmium	14.1	0.500	"	11.3	ND	125	75-125			
Chromium	25.6	0.500	"	11.3	15.0	93.8	75-125			
Lead	16.7	0.500	"	11.3	4.44	108	75-125			
Nickel	32.0	1.00	"	11.3	18.6	119	75-125			
Vanadium	99.1	2.50	"	11.3	120	NR	75-125			Q-14

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 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

### Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071014 - EPA 3550

##### Blank (1071014-BLK1)

Prepared: 07/09/01 Analyzed: 07/14/01

Aroclor 1016	ND	67.0	ug/kg							
Aroclor 1221	ND	134	"							
Aroclor 1232	ND	67.0	"							
Aroclor 1242	ND	67.0	"							
Aroclor 1248	ND	67.0	"							
Aroclor 1254	ND	67.0	"							
Aroclor 1260	ND	67.0	"							
Surr: 2,4,5,6-Tetrachloro-m-xylene	32.3		"	33.3		97.0	63-119			
Surr: Decachlorobiphenyl	35.7		"	33.3		107	52-131			

##### LCS (1071014-BS1)

Prepared: 07/09/01 Analyzed: 07/14/01

Aroclor 1016	360	67.0	ug/kg	333		108	57-132			
Aroclor 1260	329	67.0	"	333		98.8	60-136			
Surr: 2,4,5,6-Tetrachloro-m-xylene	32.8		"	33.3		98.5	63-119			
Surr: Decachlorobiphenyl	36.6		"	33.3		110	52-131			

##### Matrix Spike (1071014-MS1)

Source: P1G0120-01

Prepared: 07/09/01 Analyzed: 07/14/01

Aroclor 1016	428	67.0	ug/kg dry	382	ND	112	57-132			
Aroclor 1260	337	67.0	"	382	ND	88.2	60-136			
Surr: 2,4,5,6-Tetrachloro-m-xylene	37.8		"	38.2		99.0	63-119			
Surr: Decachlorobiphenyl	35.7		"	38.2		93.5	52-131			

##### Matrix Spike Dup (1071014-MSD1)

Source: P1G0120-01

Prepared: 07/09/01 Analyzed: 07/14/01

Aroclor 1016	386	67.0	ug/kg dry	382	ND	101	57-132	10.3	50	
Aroclor 1260	310	67.0	"	382	ND	81.2	60-136	8.35	50	
Surr: 2,4,5,6-Tetrachloro-m-xylene	36.4		"	38.2		95.3	63-119			
Surr: Decachlorobiphenyl	33.8		"	38.2		88.5	52-131			

North Creek Analytical - Portland

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

### Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071259 - EPA 3550

##### Blank (1071259-BLK1)

Prepared: 07/14/01 Analyzed: 07/18/01

Aroclor 1016	ND	67.0	ug/kg						
Aroclor 1221	ND	134	"						
Aroclor 1232	ND	67.0	"						
Aroclor 1242	ND	67.0	"						
Aroclor 1248	ND	67.0	"						
Aroclor 1254	ND	67.0	"						
Aroclor 1260	ND	67.0	"						
Surr: 2,4,5,6-Tetrachloro-m-xylene	31.7		"	33.3		95.2	63-119		
Surr: Decachlorobiphenyl	36.5		"	33.3		110	52-131		

##### LCS (1071259-BS1)

Prepared: 07/14/01 Analyzed: 07/18/01

Aroclor 1016	367	67.0	ug/kg	333		110	57-132		
Aroclor 1260	360	67.0	"	333		108	60-136		
Surr: 2,4,5,6-Tetrachloro-m-xylene	35.0		"	33.3		105	63-119		
Surr: Decachlorobiphenyl	41.0		"	33.3		123	52-131		

##### Matrix Spike (1071259-MS1)

Source: P1G0208-01

Prepared: 07/14/01 Analyzed: 07/18/01

Aroclor 1016	323	67.0	ug/kg dry	372	ND	86.8	57-132		
Aroclor 1260	359	67.0	"	372	ND	96.5	60-136		
Surr: 2,4,5,6-Tetrachloro-m-xylene	29.8		"	37.2		80.1	63-119		
Surr: Decachlorobiphenyl	40.0		"	37.2		108	52-131		

##### Matrix Spike Dup (1071259-MSD1)

Source: P1G0208-01

Prepared: 07/14/01 Analyzed: 07/18/01

Aroclor 1016	340	67.0	ug/kg dry	372	ND	91.4	57-132	5.13	50
Aroclor 1260	370	67.0	"	372	ND	99.5	60-136	3.02	50
Surr: 2,4,5,6-Tetrachloro-m-xylene	31.0		"	37.2		83.3	63-119		
Surr: Decachlorobiphenyl	40.5		"	37.2		109	52-131		

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

### Volatile Organic Compounds per EPA Method 8260B - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071265 - EPA 5035


#### Blank (1071265-BLK1)

Prepared: 07/14/01 Analyzed: 07/15/01

Acetone	ND	25.0	ug/kg
Benzene	ND	1.00	"
Bromobenzene	ND	1.00	"
Bromochloromethane	ND	1.00	"
Bromodichloromethane	ND	1.00	"
Bromoform	ND	1.00	"
Bromomethane	ND	5.00	"
2-Butanone	ND	10.0	"
n-Butylbenzene	ND	5.00	"
sec-Butylbenzene	ND	1.00	"
tert-Butylbenzene	ND	1.00	"
Carbon disulfide	ND	10.0	"
Carbon tetrachloride	ND	1.00	"
Chlorobenzene	ND	1.00	"
Chloroethane	ND	1.00	"
Chloroform	ND	1.00	"
Chloromethane	ND	5.00	"
2-Chlorotoluene	ND	1.00	"
4-Chlorotoluene	ND	1.00	"
1,2-Dibromo-3-chloropropane	ND	5.00	"
Dibromochloromethane	ND	1.00	"
1,2-Dibromoethane	ND	1.00	"
Dibromomethane	ND	1.00	"
1,2-Dichlorobenzene	ND	1.00	"
1,3-Dichlorobenzene	ND	1.00	"
1,4-Dichlorobenzene	ND	1.00	"
Dichlorodifluoromethane	ND	5.00	"
1,1-Dichloroethane	ND	1.00	"
1,2-Dichloroethane	ND	1.00	"
1,1-Dichloroethene	ND	1.00	"
cis-1,2-Dichloroethene	ND	1.00	"
trans-1,2-Dichloroethene	ND	1.00	"
1,2-Dichloropropane	ND	1.00	"
1,3-Dichloropropane	ND	1.00	"
2,2-Dichloropropane	ND	1.00	"
1,1-Dichloropropene	ND	1.00	"

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

### Volatile Organic Compounds per EPA Method 8260B - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071265 - EPA 5035


#### Blank (1071265-BLK1)

Prepared: 07/14/01 Analyzed: 07/15/01

cis-1,3-Dichloropropene	ND	1.00	ug/kg							
trans-1,3-Dichloropropene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
Hexachlorobutadiene	ND	2.00	"							
2-Hexanone	ND	10.0	"							
Isopropylbenzene	ND	2.00	"							
p-Isopropyltoluene	ND	2.00	"							
4-Methyl-2-pentanone	ND	5.00	"							
Methyl tert-butyl ether	ND	1.00	"							
Methylene chloride	ND	5.00	"							
Naphthalene	ND	2.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							
1,1,1,2-Tetrachloroethane	ND	1.00	"							
1,1,2,2-Tetrachloroethane	ND	1.00	"							
Tetrachloroethene	ND	1.00	"							
Toluene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	ND	1.00	"							
1,1,1-Trichloroethane	ND	1.00	"							
1,1,2-Trichloroethane	ND	1.00	"							
Trichloroethene	ND	1.00	"							
Trichlorofluoromethane	ND	1.00	"							
1,2,3-Trichloropropane	ND	1.00	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surr: 4-BFB	17.9		"	20.0		89.5	70-130			
Surr: 1,2-DCA-d4	20.4		"	20.0		102	70-130			
Surr: Dibromofluoromethane	20.2		"	20.0		101	70-130			
Surr: Toluene-d8	19.5		"	20.0		97.5	70-130			

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

### Volatile Organic Compounds per EPA Method 8260B - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071265 - EPA 5035

##### LCS (1071265-BS1)

Prepared: 07/14/01 Analyzed: 07/15/01

Benzene	21.6	1.00	ug/kg	20.0		108	80-135			
Chlorobenzene	22.3	1.00	"	20.0		112	80-135			
1,1-Dichloroethene	20.0	1.00	"	20.0		100	60-150			
Toluene	22.6	1.00	"	20.0		113	80-130			
Trichloroethene	21.2	1.00	"	20.0		106	70-135			
Surr: 4-BFB	21.1		"	20.0		106	70-130			
Surr: 1,2-DCA-d4	20.8		"	20.0		104	70-130			
Surr: Dibromofluoromethane	21.2		"	20.0		106	70-130			
Surr: Toluene-d8	20.7		"	20.0		104	70-130			

##### LCS Dup (1071265-BS1)

Prepared: 07/14/01 Analyzed: 07/15/01

Benzene	17.9	1.00	ug/kg	20.0		89.5	80-135	18.7	25	
Chlorobenzene	18.5	1.00	"	20.0		92.5	80-135	18.6	25	
1,1-Dichloroethene	16.4	1.00	"	20.0		82.0	60-150	19.8	25	
Toluene	18.2	1.00	"	20.0		91.0	80-130	21.6	25	
Trichloroethene	17.0	1.00	"	20.0		85.0	70-135	22.0	25	
Surr: 4-BFB	20.9		"	20.0		104	70-130			
Surr: 1,2-DCA-d4	20.3		"	20.0		102	70-130			
Surr: Dibromofluoromethane	21.2		"	20.0		106	70-130			
Surr: Toluene-d8	20.6		"	20.0		103	70-130			

##### Matrix Spike (1071265-MS1)


Source: PIG0205-01

Prepared: 07/14/01 Analyzed: 07/15/01

Benzene	1880	66.1	ug/kg dry	1700	ND	111	60-135			
Chlorobenzene	1950	66.1	"	1700	ND	115	65-125			
1,1-Dichloroethene	1960	66.1	"	1700	ND	115	60-135			
Toluene	1950	66.1	"	1700	ND	115	60-125			
Trichloroethene	1850	66.1	"	1700	ND	109	60-125			
Surr: 4-BFB	17.3		"	17.0		102	70-130			
Surr: 1,2-DCA-d4	16.6		"	17.0		97.6	70-130			
Surr: Dibromofluoromethane	17.5		"	17.0		103	70-130			
Surr: Toluene-d8	18.0		"	17.0		106	70-130			

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Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

**Amended Report**  
Issued: 07/30/01 16:44

**Volatile Organic Compounds per EPA Method 8260B - Quality Control**

**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1071265 - EPA 5035**

**Matrix Spike Dup (1071265-MSD1)**


Source: P1G0205-01

Prepared: 07/14/01 Analyzed: 07/15/01

Benzene	1870	66.1	ug/kg dry	1700	ND	110	60-135	0.533	25	
Chlorobenzene	1950	66.1	"	1700	ND	115	65-125	0.00	25	
1,1-Dichloroethene	1980	66.1	"	1700	ND	116	60-135	1.02	25	
Toluene	1990	66.1	"	1700	ND	117	60-125	2.03	25	
Trichloroethene	1850	66.1	"	1700	ND	109	60-125	0.00	25	
Surr: 4-BFB	17.4		"	17.0		102	70-130			
Surr: 1,2-DCA-d4	16.2		"	17.0		95.3	70-130			
Surr: Dibromofluoromethane	17.6		"	17.0		104	70-130			
Surr: Toluene-d8	18.0		"	17.0		106	70-130			

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 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

### Polynuclear Aromatic Compounds per EPA 8270M-SIM - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071164 - EPA 3550

##### Blank (1071164-BLK1)

Prepared: 07/12/01 Analyzed: 07/16/01

Acenaphthene	ND	13.4	ug/kg							
Acenaphthylene	ND	13.4	"							
Anthracene	ND	13.4	"							
Benzo (a) anthracene	ND	13.4	"							
Benzo (a) pyrene	ND	13.4	"							
Benzo (b) fluoranthene	ND	13.4	"							
Benzo (ghi) perylene	ND	13.4	"							
Benzo (k) fluoranthene	ND	13.4	"							
Chrysene	ND	13.4	"							
Dibenzo (a,h) anthracene	ND	13.4	"							
Fluoranthene	ND	13.4	"							
Fluorene	ND	13.4	"							
Indeno (1,2,3-cd) pyrene	ND	13.4	"							
Naphthalene	ND	13.4	"							
Phenanthrene	ND	13.4	"							
Pyrene	ND	13.4	"							
Surr: Fluorene-d10	66.9		"	83.3		80.3	40-150			
Surr: Pyrene-d10	96.5		"	83.3		116	40-150			
Surr: Benzo (a) pyrene-d12	72.5		"	83.3		87.0	40-150			

##### LCS (1071164-BS1)

Prepared: 07/12/01 Analyzed: 07/16/01

Acenaphthene	125	13.4	ug/kg	167		74.9	33-139			
Benzo (a) pyrene	141	13.4	"	167		84.4	45-149			
Pyrene	150	13.4	"	167		89.8	39-138			
Surr: Fluorene-d10	66.4		"	83.3		79.7	40-150			
Surr: Pyrene-d10	97.1		"	83.3		117	40-150			
Surr: Benzo (a) pyrene-d12	74.3		"	83.3		89.2	40-150			

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 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44

### Polynuclear Aromatic Compounds per EPA 8270M-SIM - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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
#### Batch 1071164 - EPA 3550

Matrix Spike (1071164-MS1)		Source: P1G0123-17		Prepared: 07/12/01		Analyzed: 07/16/01		R-05		
Acenaphthene	152	67.0	ug/kg dry	193	ND	74.2	33-139			
Benzo (a) pyrene	180	67.0	"	193	ND	93.3	45-149			
Pyrene	204	67.0	"	193	ND	101	39-138			
Surr: Fluorene-d10	77.8		"	96.3		80.8	40-150			
Surr: Pyrene-d10	124		"	96.3		129	40-150			
Surr: Benzo (a) pyrene-d12	93.2		"	96.2		96.9	40-150			

Matrix Spike Dup (1071164-MSD1)		Source: P1G0123-17		Prepared: 07/12/01		Analyzed: 07/16/01		R-05		
Acenaphthene	169	67.0	ug/kg dry	193	ND	83.0	33-139	10.6	60	
Benzo (a) pyrene	194	67.0	"	193	ND	101	45-149	7.49	60	
Pyrene	219	67.0	"	193	ND	109	39-138	7.09	60	
Surr: Fluorene-d10	92.4		"	96.3		96.0	40-150			
Surr: Pyrene-d10	137		"	96.3		142	40-150			
Surr: Benzo (a) pyrene-d12	101		"	96.2		105	40-150			

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Amended Report**  
 Issued: 07/30/01 16:44


### Percent Dry Weight (Solids) per Standard Methods - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1071131 - Dry Weight</b>									
<b>Duplicate (1071131-DUP1)</b>	<b>Source: P1G0120-01</b>		<b>Prepared: 07/11/01</b>		<b>Analyzed: 07/12/01</b>				
% Solids	86.7	1.00 % by Weight			87.2		0.575	20	
<b>Duplicate (1071131-DUP2)</b>	<b>Source: P1G0120-02</b>		<b>Prepared: 07/11/01</b>		<b>Analyzed: 07/12/01</b>				
% Solids	77.5	1.00 % by Weight			74.5		3.95	20	
<b>Duplicate (1071131-DUP3)</b>	<b>Source: P1G0120-03</b>		<b>Prepared: 07/11/01</b>		<b>Analyzed: 07/12/01</b>				
% Solids	73.4	1.00 % by Weight			76.1		3.61	20	
<b>Duplicate (1071131-DUP4)</b>	<b>Source: P1G0064-03</b>		<b>Prepared: 07/11/01</b>		<b>Analyzed: 07/12/01</b>				
% Solids	98.6	1.00 % by Weight			98.9		0.304	20	
<b>Duplicate (1071131-DUP5)</b>	<b>Source: P1G0064-04</b>		<b>Prepared: 07/11/01</b>		<b>Analyzed: 07/12/01</b>				
% Solids	95.1	1.00 % by Weight			95.2		0.105	20	

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Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

**Amended Report**  
Issued: 07/30/01 16:44

### Notes and Definitions

- Q-01 The spike recovery, and/or RPD, for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
- Q-14 The Spike Recovery and/or RPD is outside of control limits due to a non-homogeneous sample matrix.
- R-03 The reporting limit for this analyte was raised due to matrix interference.
- R-05 Reporting limits raised due to dilution necessary for analysis. Sample contains high levels of reported analyte, non-target analyte, and/or matrix interference.
- R-06 The reporting limit for this analyte was raised due to possible laboratory contamination of the sample or extract.
- S-07 Surrogate recovery is out of control limits. QA criteria are met when one surrogate is within control limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference